uC53281-EVM HOW TO: DEMO USING BREKEKE SIPserver®

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Arcturus Networks Inc. 701 Evans Ave Suite 300 Toronto, ON M9C 1A3 tel +1 416.621.0125 fax + 1 416.621.0190 www.arcturusnetworks.com

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Figure 1 – uC53281 Embedded Voice Module (EVM)

INTRODUCTION

After you have followed the steps in the <u>Getting Started Guide</u> to unpack and set up your UC53281EVM you may choose to install a SIP server on your PC. This will allow you to create a demo to call between two or more UC53281 devices or any number of SIP clients and a UC53281 device.

There are a number of compatible SIP servers available on the market ranging from simple SIP registrar and proxies to complex PBX like systems. This document explains how-to obtain, install and configure a simple, multiplatform SIP server produced by a company called Brekeke. Advanced users and customers may opt to use other SIP server products like Asterisk® or the Brekeke PBX.

This demo is particularly useful for on-site demo's, lab environments or other closed network applications where DHCP server or Internet access may not be available. Follow the steps below to obtain an evaluation version of the Brekeke SIPserver[®], install and configure the device and run a demo.

This How-To is divided up into the following parts:

- Part 1 Obtaining (and Installing) the SIPserver
- Part 2 Configuring the 53281 Device(s)
- Part 3 Setting up and Running a Demo
- Part 4 Using a PC Softphone with the Demo

http://www.brekeke.com/products/products_sip_quickstart.php#SettingupWindowsMessenger

PLEASE NOTE THAT THE BREKEKE SIPSERVER IS A SIMPLE PROXY SERVER FOR EVALUATION PURPOSES ONLY.

PART – 1 OBTAINING THE SIPSERVER

Step – 1 Getting the Brekeke SIPserver

Go the the URL below and click on **DOWNLOAD FREE TRIAL**. Follow the instructions to select the correct system version and license option that you require. The server is available for $MAC^{\$}$, Linux[®] and windows[®]

http://www.brekeke.com/products/products_sip_2.php



Step – 2 Installing the Server

Install the server by following the instructions provided for your platform.

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Step – 3 Running the Server

Start the server by clicking on the SIPserver admin tool icon on your desktop.

The default login and passwords the User ID: sa password: sa

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SIP Server			
Login			
User ID:	58		
Password:	Adde		
	Login		
Brekeke SIP Server , Version 2.0.7.2 Personal ID: 00047483 Copyright @ 2002-2007, Brekeke Software, Inc.			

Step – 4 Creating an Account

Select the USER AUTHENTICATION tab and click on NEW USER.

Enter the User (UID) and Password (Authenticated Password) information of the account you wish to create.

NOTE: It is recommended that you set up an account that conforms to the default digit map in the UC53281 device. Use the standard North American number plan format 1-nnn-nnnn.

This will enable you to demo functions like call blocking.

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User Authentication > Nev	v User		
User:	12223334444		
Password:			
Confirm Password:			
Name:	My Demo		
Email Address:			
Description:			
	Add Delete		
	Add Delete		

Repeat the step above to create multiple accounts.

Step – 5 Confirming the Account

Use the **VIEW USERS** to confirm the accounts have been created

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User Name Email Address Description				
12223334444 My Demo1				
12223335555 My Demo2				
NOTE: YOU MAY NEED TO RESTART THE SERVER FOR THE ACCOUNTS TO BECOME ACTIVE				

PART -2 CONFIGURING THE UC53281

Step – 1 Logging in to the UC53281EVM

Log into the uC53281EVM web based configuration tool by entering the IP address in the URL line of your web browser. To find out the IP address of the device. Press GPIO button 3 and the voice response system will read the IP address.

- Login: admin
- Password: admin

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	Please click Login	Login
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Step – 2 Setting up The VoIP Account on the UC53281EVM

Choose the VoIP tab page and using Account-1 enter the account settings as you have created them on the SIPserver.

For the **DOMAIN/REALM** setting use the IP address of the PC machine with the SIPserver installed

For the **SIP PROXY: SIP:**// setting use the IP address of the PC machine with SIPserver installed followed by the port :5060

Apply the settings and repeat the same steps to configure any additional devices, using unique accounts created on the SIP server.

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	Account1 💌 :	My SIP Server Demo	
	Phone Number/UserID:	12223334444	
	Display Name (CID):	My Demo 1	
	Authenticated User:	12223334444	
	Authenticated Password:	12223334444	
	Domain/Realm:	192.168.1.216	
	SIP Proxy: SIP://	192.168.1.216:5060	
	SIP Port:	5060 5060	
	RTP LAN/Public Port:	8016 8016	
	STUN Usage:	None	
	Default Area Code:	000	
	SIP Registration Timeout:	1800 seconds	
	(See: advanced) Feature MAGIC:	195 (decimal magic)	
	Voice Mail SIP:	mail (URI)	
	Conference Server SIP:	conference (URI)	Back To Top
			v

Step – 3 Confirming Registration

If the account is configured properly and the network is working the home page of the UC53281 should display a green dot – meaning that the account is working and ready to use.

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Telephony Setup Wizard	General Status	Apply	
Network Setup Wizard			
► Logout	Basic Configuration Information		
	Line 1 Provider: My SIP Server Demo Line 1 Phone Number: 12223334444 Line 1 Status: Online	•	
	Hostname: uC\$3281-EVM WAN DF Addres: 192.169.1.40 WAN Connected via: DHCP SystemDate: Tue Oct 23 10:39:27 2007 SystemUptime: 16 minutes		
	Software release 1.0.2-pre212-(20071018)	Slop Kelfesh	

Step – 4 Creating A Portable Demo Using Static Network Settings

If you are taking the demo to another location or want to run the demo as a closed network, you will want to configure both your PC machine and the UC53281 devices to have static IP addresses OR use the built in DHCP server on one of the UC53281 devices.

To configure the UC53281 to have a static IP address, select the **BASIC** tab page and click the radio button beside the **STATIC IP ADDRESS** setting. Enter the static IP address you wish to use and click apply.

NOTE: By applying a change to the IP address of the device, the web configuration page location may also change. You may need to log back into the device at the new IP address you have assigned

NOTE: When statically configuring the network settings, ensure that all devices have been configured to use the same network and subnet.

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		Static IP Address Static IP Enter your ISP provided stat WAN IP WAN IP	Your ISP assigns a ic IP information. Address: 192.168. Netmask: 255.255.	permanent IP address vhich you must enter.		

Example Windows setting:

Internet Protocol (TCP/IP) Properties 🛛 🖓 🔀			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
 Obtain an IP address automaticall 	y III		
 Use the following IP address: — 			
IP address:	192.168.1.216		
Subnet mask:	255.255.255.0		
Default gateway:			
Obtain DNS server address autor	atically		
Our of the following DNS server add → Our of the following DNS server add	resses:		
Preferred DNS server:			
Alternate DNS server:	· · ·		
Advanced			
	OK Cancel		

Step – 5 Creating A Portable Demo Using DHCP (optional)

You may choose to use one of the UC53281 devices as a DHCP server to automatically configuring the network settings on your PC machine and any other DHCP client devices.

It is important to follow the previous step and assign a static IP address to the UC53281 device you are going to use as the DHCP server. Once you have completed this step you can enable the DHCP server by clicking on **DHCP SERVER** on the left column button bar and selecting the **NOTE:** Make sure all devices are on the same network and subnet.

NOTE: It is recommended that you assign devices to the DHCP CLIENT to reserve IP addresses by MAC Address.

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	② 2007 Arcturus Networks Inc. All Rights Reserved www.arcturusnetworks.com	

NOTE: You can reset your network settings back to DHCP client by holding GPIO button-1 for 4 seconds after pressing reset. This will disable DHCP server and enable DHCP client, as well as resetting the login and password to admin/admin.

PART – 3 SETTING UP THE DEMO

Follow the steps in the previous sections and ensure you have:

- 1. Created a minimum of two accounts on the SIP server
- 2. Configured two or more UC53281 devices each with a unique account
- 3. Confirmed that the device are REGISTERED with a green dot on the home page of the webUI

Log into the uC53281 devices and configure the phone book and speed dial settings by following the instructions below.

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		Home Basic Advanced VoIP Admin Status		
	Account Audio	Phone Book	Apply	
	Phone Book Speed Dial	Phone Book		
	Instant Message Logout	Full Name Organization Titl Delete Change	te Location Telephone home V 1222334444	

Step – 2 Confirming The Speed Dial	
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Select the **SPEED DIAL** from the **VOIP** page and confirm that the phone book setting is set to Speed Dial 1 or 2. The first two speed dials are automatically assigned to GPIO 1 and 2 buttons on the host board.

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Step – 3 Testing The Demo

To test the demo, press the GPI/O button on the EVM host board (either 1 or 2) that corresponds to the speed dial you wish to call. Press the GPI/O button again to hang up the call.

PART – 4 USING A PC SOFTPHONE

It is possible to use a softphone installed on your PC to make and receive calls between your PC and the uC53281 device(s). It is assumed your PC supports audio.

Follow the steps in the previous sections and ensure you:

- 1. Created a minimum of two accounts on the SIP server
- 2. Configure at least one UC53281 device with a unique account
- 3. Confirmed that the UC53281 is REGISTERED with a green dot on the home page of the webUI

Step – 1 Getting the PC Softphone

Using the link below, download and install the PC softphone according to the instructions provided. The Zoiper softphone is available for MAC, WIN and LINUX and has been tested for compatibility with the SIP server under a WINXP environment.

http://www.zoiper.com/free.php

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HOME SHOP FAQ HOME SHOP FAQ HOME SHOP FAQ HOME SHOP FAQ PROPERTIES OF A CONTRACT O	CONTACT

Step – 2 Running the Softphone Application

After installing the application on your PC run Zoiper and select the OPTIONS pop up window by clicking on the WRENCH icon located to the far right of the Zoiper tool bar.

JoiPer 🛞	
Phone to dial	
1 2 3 4 5 6	
<u> </u>	
Account	
▼ Register	

Step – 3 Creating an Account

Using the pop up window select ADD NEW SIP ACCOUNT from the left column. Enter the name you wish to call the account in the ADD NEW ACCOUNT window. Click OK to continue.

ZOIPER Options	□ SIP accounts overview				×
SIP accounts Add new SIP account Add new SIP account Add new IAX account Audio options Audio devices Audio codecs General options Call events		Registered	Username	Domain	
Ø ZolPer	Add new SIP acco	ount			×
ОК	Cancel				
Show advanced options	ок с	ancel 4	Apply		

Step – 4 Setting up the Account

Configure the account settings in the same way you configure the settings on the UC53281 device, using a unique account for each instance. Click OK to continue

ZOIPER Options		
	SIP account options	
Demo-1	Domain : 192.168.1.216	
Add new IAX account	Username : 12223335555	
Audio options	Password : ********	
Audio codecs	Caller ID Name : 12223335555	
Show advanced options		
	OK Cancel Apply	

Step – 5 Confirming the Account

If the account does not immediately become active click on the REGISTER button to confirm registration with the server.

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Phone to dial	Phone to dial
-	- I
1 2 3 4 5 6	1 2 3 4 5 6
·····································	$[\mathbf{r}_{1},\ldots,\mathbf{r}_{n}] = [\mathbf{r}_{1},\ldots,\mathbf{r}_{n}] = [\mathbf{r}_{1},\ldots,\mathbf{r}_{n}] = [\mathbf{r}_{1},\ldots,\mathbf{r}_{n}]$
Account	Account
Demo-1 (SIP) Register	Dem 1 (Registered) (SIP 👻 Unregister
	_

Confirm that the account has registered

Step – 6 Advanced Options

It is recommended that the following settings be configured under the ad

1. Disable STUN

STUN is used for NAT firewall traversal and is not required for this demo. Using STUN may cause poor quality or one-way audio. To disable STUN click on the OPTIONS wrench icon and select the SIP account you wish to modify, then select the SHOW ADVANCED OPTIONS check box. From the drop down box select DON'T USE STUN. Click OK to continue

Differ Options		X
Skarroupts	SIP account options	7
Demo-1	Domain : 192.168.1.216	
IN accounts	Username : 12223335555	
Protocol options SIP options	Password : *********	
IAX options RTP options STUN options	Caller ID Name : 12223335555	
E Audio options	Advanced account options	ī
Audio devices Audio codecs	Use outbound proxy	
General options	Outbound proxy : 192.168.1.216	
	Voicemail extension :	
	Register on startup	
	Don't play ringback tones	
	Use UDP transport	
☑ Show advanced options		
	OK Cancel Apply	

2. Select Audio Codec

For best quality audio and to ensure interoperability select the G.711 audio codecs. Click OK to continue.

J ZOIPER Options	X
SIP accounts Demo-1 Add new SIP account Add new SIP account Add new IAX account Add new IAX account SIP options SIP options SIP options SIV options STUN options STUN options Addio devices Audio codecs Audio codecs Codec options SIP options STUN options STUN options Codec	

Step – 7 Running the Demo

You can now place or receive calls between your PC machine and the UC53281 by entering the UC53281 account number into your Zoiper window or by setting up a speed dial in the WebUI of the UC53281.

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Phone to dial
12223334444 🗸
1 2 3 4 5 6
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Account
Demo-1 (Registered) (SIP) 🔹 Unregister

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CONTACT INFORMATION

Arcturus Networks, Inc., the Authors of this document can be contacted at:

Arcturus Networks Inc. 701 Evans Ave. Suite 300 Toronto, ON Canada M9C 1A3 URL: www.ArcturusNetworks.com TEL: +1 416.621.0125 TEL: +1 866 733 8647 FAX +1 416.621.0190

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